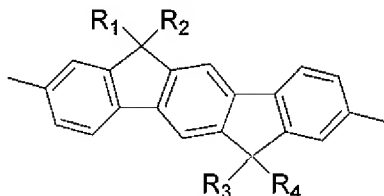


**AMENDMENT TO THE CLAIMS**

1. (Previously presented) A polymer comprising optionally substituted first repeat units of formula (I):



(I)

wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> are selected from hydrogen, alkyl, alkyloxy, aryl, aryloxy, heteroaryl or heteroaryloxy groups, and R<sub>1</sub> and R<sub>2</sub> and / or R<sub>3</sub> and R<sub>4</sub> may be linked to form a monocyclic or polycyclic, aliphatic or aromatic ring system, provided that at least one of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> comprises an aryl or heteroaryl group.

2. (Original) A polymer according to claim 1 wherein at least two of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> comprise an aryl or heteroaryl group.

3. (Original) A polymer according to claim 1 wherein at least three of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> comprise an aryl or heteroaryl group.

4. (Original) A polymer according to claim 1 wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> comprise an aryl or heteroaryl group.

5. (Original) A polymer according to claim 1 wherein R<sub>1</sub> and R<sub>2</sub> comprise an aryl or heteroaryl group and R<sub>3</sub> and R<sub>4</sub> comprise an alkyl group.

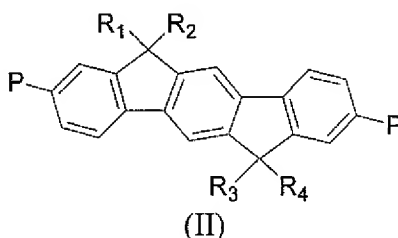
6. (Previously presented) A polymer according to claim 5, wherein said aryl group comprises an optionally substituted phenyl group.

7. (Previously presented) A polymer according to claim 2 wherein said aryl group comprises a 4-octylphenyl group or a 4-*tert*-butyl-phenyl group.

8. (Previously presented) A polymer according to claim 1 comprising a second repeat unit.

9. (Previously presented) A polymer according to claim 8 wherein said second repeat unit is selected from the group consisting of triarylamines and heteroaromatics.

10. (Withdrawn) A monomer comprising an optionally substituted compound of formula (II):



wherein each P independently represents a polymerisable group and R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> are independently hydrogen, alkyl, alkyloxy, aryl, aryloxy, heteroaryl or heteroaryloxy groups, and R<sub>1</sub> and R<sub>2</sub> and / or R<sub>3</sub> and R<sub>4</sub> may be linked to form a monocyclic or polycyclic, aliphatic or aromatic ring system, provided that at least one of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> comprises an aryl or heteroaryl group.

11. (Withdrawn) A monomer according to 10 wherein each P is independently selected from a reactive boron derivative group selected from a boronic acid group, a boronic ester group and a borane group; a reactive halide group or a moiety of formula -O-SO<sub>2</sub>-Z wherein Z is selected from the group consisting of optionally substituted alkyl and aryl.

12. (Withdrawn) A process for preparing a polymer comprising a step of reacting a first monomer wherein said first monomer is the monomer as defined in claim 10 and a second monomer that may be the same or different from the first monomer under conditions so as to polymerise the monomers.

13. (Withdrawn) A process for preparing a polymer according to claim 12 which comprises polymerising in a reaction mixture:

- (a) said first monomer wherein each P is a boron derivative functional group selected from a boronic acid group, a boronic ester group and a borane group, and an

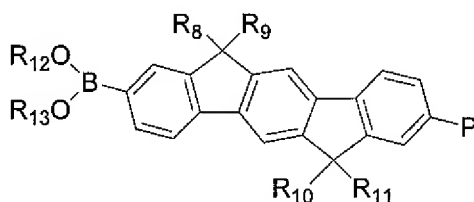
aromatic monomer having at least two reactive functional groups independently selected from halides or a moiety of formula  $-O-SO_2-Z$ ; or

- (b) said first monomer wherein each P is independently selected from the group consisting of reactive halide functional groups functional groups independently selected from halides and a moieties of formula  $-O-SO_2-Z$  and Z is as defined in claim 11, and an aromatic monomer having at least two boron derivative functional groups selected from boronic acid groups, boronic ester groups and borane groups; or
- (c) said first monomer wherein one P is a reactive halide functional group or a moiety of formula  $-OSO_2-Z$  and Z is selected from the group consisting of optionally substituted alkyl and aryl, and the other P is a boron derivative functional group selected from a boronic acid group, a boronic ester group and a borane group,

wherein the reaction mixture comprises a catalytic amount of a catalyst suitable for catalysing the polymerisation of the aromatic monomers, and a base in an amount sufficient to convert the boron derivative functional groups into boronate anionic groups.

14. (Previously presented) An organic light emitting device comprising a polymer according to claim 1.

15. (Withdrawn) A monomer comprising an optionally substituted repeat unit of formula (III):



(III)

wherein R<sub>8</sub>, R<sub>9</sub>, R<sub>10</sub>, R<sub>11</sub>, R<sub>12</sub> and R<sub>13</sub> are the same or different and independently represent hydrogen, alkyl, alkyloxy, aryl, aryloxy, heteroaryl or heteroaryloxy groups, and R<sub>8</sub> and R<sub>9</sub>, R<sub>10</sub> and R<sub>11</sub> or R<sub>12</sub> and R<sub>13</sub> may be linked to form a monocyclic or polycyclic, aliphatic

or aromatic ring system; one or more of the pairs of  $R_8$  and  $R_9$ ,  $R_{10}$  and  $R_{11}$  or  $R_{12}$  and  $R_{13}$  may be linked to form a ring; and P independently represents a polymerisable group.

16. (Withdrawn) A monomer according to claim 15 wherein  $R_8$ ,  $R_9$ ,  $R_{10}$  and  $R_{11}$  are independently selected from the group consisting of optionally substituted alkyl, alkoxy, aryl, aryloxy, heteroaryl or heteroaryloxy.

17. (Withdrawn) A monomer according to claim 15, wherein P is selected from the group consisting of functional halogens, a monovalent unit of formula  $-\text{OSO}_2\text{Z}$  or a monovalent unit of formula  $-\text{B}(\text{OR}_{14})(\text{OR}_{15})$  wherein  $R_{14}$  and  $R_{15}$  are the same or different and independently represent hydrogen or a substituent  $R_{12}$  and  $R_{13}$  and may be linked to form a ring; and Z is selected from the group consisting of optionally substituted alkyl and aryl.

18. (Withdrawn) A monomer according to claim 17, wherein  $R_{12}$ ,  $R_{13}$ ,  $R_{14}$  and  $R_{15}$  are the same or different and are selected from the group consisting of hydrogen and optionally substituted alkyl.

19. (Withdrawn) A monomer according to claim 18 wherein  $R_{12}$  and  $R_{13}$  and / or  $R_{14}$  and  $R_{15}$  are linked to form an optionally substituted ethylene group.

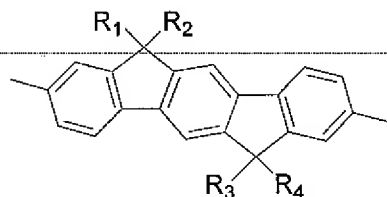
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20. (Withdrawn) A process for preparing a polymer which comprises polymerising in a reaction mixture:

- (a) said monomer according to claim 15, wherein P is a group of formula  $-\text{B}(\text{OR}_{14})(\text{OR}_{15})$  and  $R_{14}$  and  $R_{15}$  are the same or different and independently represent hydrogen or a substituent  $R_{12}$  and  $R_{13}$ , and an aromatic monomer having at least two reactive functional groups independently selected from halide or moieties of formula  $-\text{O}-\text{SO}_2-\text{Z}$  and Z is as defined in; or
- (b) said monomer, wherein P is a reactive halide functional group or a moiety of formula  $-\text{O}-\text{SO}_2-\text{Z}$  and Z is selected from the group consisting of optionally substituted alkyl and aryl,

wherein the reaction mixture comprises a catalytic amount of a catalyst suitable for catalysing the polymerisation of the aromatic monomers, and a base in an amount sufficient to convert the boron derivative functional groups into boronate anionic groups.

21. (Withdrawn) A switching device comprising the polymer according to claim 9.
22. (Withdrawn) A field effect transistor comprising an insulator having a first side and a second side; a gate electrode located on the first side of the insulator; a polymer according to claim 1 located on the second side of the insulator; and a drain electrode and a source electrode located on the polymer.
23. (Withdrawn) An integrated circuit comprising a field effect transistor according to claim 22.
24. (Withdrawn) A photovoltaic cell comprising a polymer according to claim 1.
25. (New) The A polymer as claimed in claim 1 comprising first repeat units of formula (I):



(I)

wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> are selected from hydrogen, alkyl, alkyloxy, aryl, aryloxy, heteroaryl or heteroaryloxy groups, and R<sub>1</sub> and R<sub>2</sub> and / or R<sub>3</sub> and R<sub>4</sub> may be linked to form a monocyclic or polycyclic, aliphatic or aromatic ring system, provided that at least one of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> comprises an aryl or heteroaryl group.